

CLAIMS

1. A sheet metal repair support device comprising a drawing device for drawing out a damaged part, and a plurality of leg parts fixed to a panel surface around the damaged part, the sheet metal repair support device being adopted, when drawing out the damaged part, to draw out the damaged part by using the leg parts fixed to the panel surface as fulcrums,

characterized in that the leg parts are connected to the drawing device at angles providing predetermined inclinations with respect to normal lines extending from the panel surface constituting a fixation place.

2. A sheet metal repair support device according to Claim 1, characterized in that the inclinations of the leg parts are set within a range in which the damaged part to be drawn out and the leg parts make acute angles.

3. A sheet metal repair support device according to Claim 1, characterized in that the leg parts are swingably supported with respect to the drawing device.

4. A sheet metal repair support device according to Claim 1, characterized in that each of the leg parts is provided with a movable portion varying an angle at which a distal end of the leg part is

held in contact with the panel surface.

5. A sheet metal repair support device according to Claim 1, further comprising a set of sub frames supported over the damaged part through the leg parts, and a main frame supporting the drawing device so as to allow sliding in a longitudinal direction of the main frame,

characterized in that the main frame is connected to the sub frames through a frame bracket slidable with respect to an axial direction of the sub frames.

6. A sheet metal repair support device according to Claim 5, characterized in that the frame bracket is equipped with a movable portion rotatable circumferentially around the main frame, and that the main frame and the sub frames are connected to each other through the movable portion.

7. A sheet metal repair support device according to Claim 5, characterized in that the frame bracket detachably holds at least one of the main frame and the sub frames.

8. A sheet metal repair support device according to Claim 5, characterized in that the leg parts are each equipped with a suction pad for fixation to the panel surface by a suction force, and that

the sub frames are formed as hollow components, with a negative pressure generating the suction force of the suction pad being supplied to the suction pad through the hollow sub frames.

9. A jig for a sheet metal repair support device comprising a drawing device for drawing out a damaged part, and a plurality of leg parts fixed to a panel surface around the damaged part, the sheet metal repair support device being adopted, when drawing out the damaged part, to draw out the damaged part by using the leg parts fixed to the panel surface as fulcrums,

characterized in that the jig comprises a base plate portion fixed to a periphery of the damaged part, and a fixation plate forming in a vicinity of the leg parts of the sheet metal repair support device a fixation plate serving as the panel surface constituting a proper fixation place using the base plate portion as a fulcrum.

10. A jig for a sheet metal repair support device according to Claim 9, characterized in that an angle adjusting mechanism for adjusting a support angle of the fixation plate with respect to the base plate portion is provided between the base plate portion and the fixation plate.

11. A jig for a sheet metal repair support device according to Claim 9, characterized in that at least one of the base plate

portion and the fixation plate is provided with a slide mechanism supporting the fixation plate slidably with respect to the base plate portion.